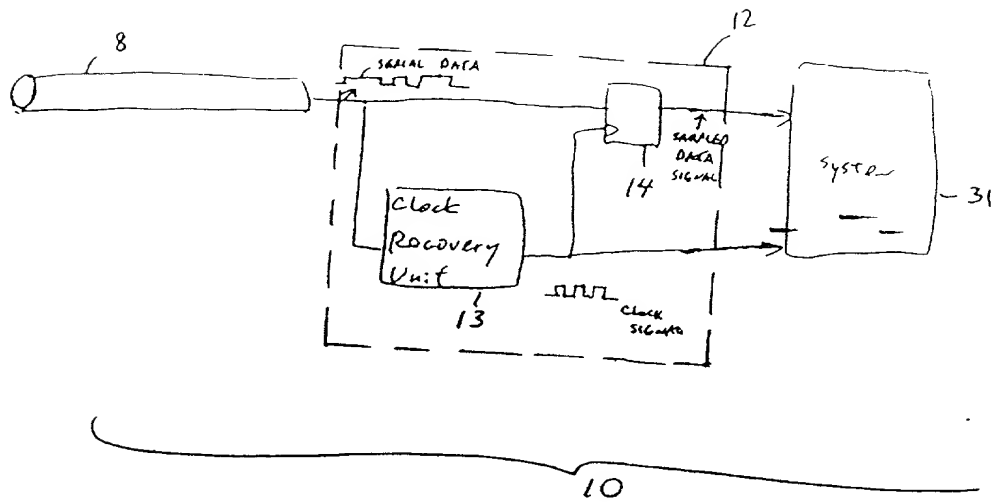


FIG 1

PRIOR ART



PRIOR ART

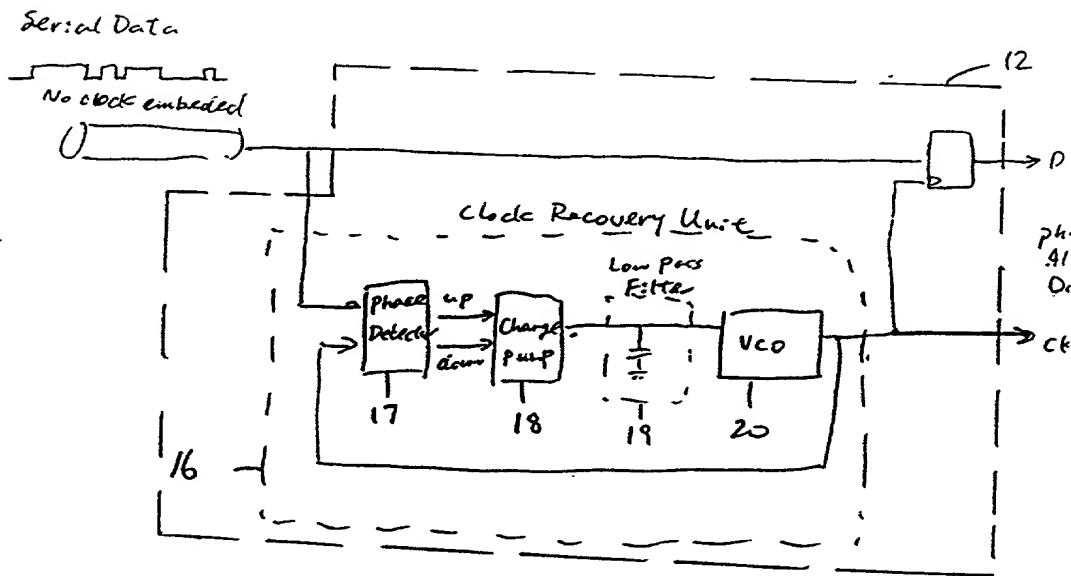


FIG. 2



FIG. 4

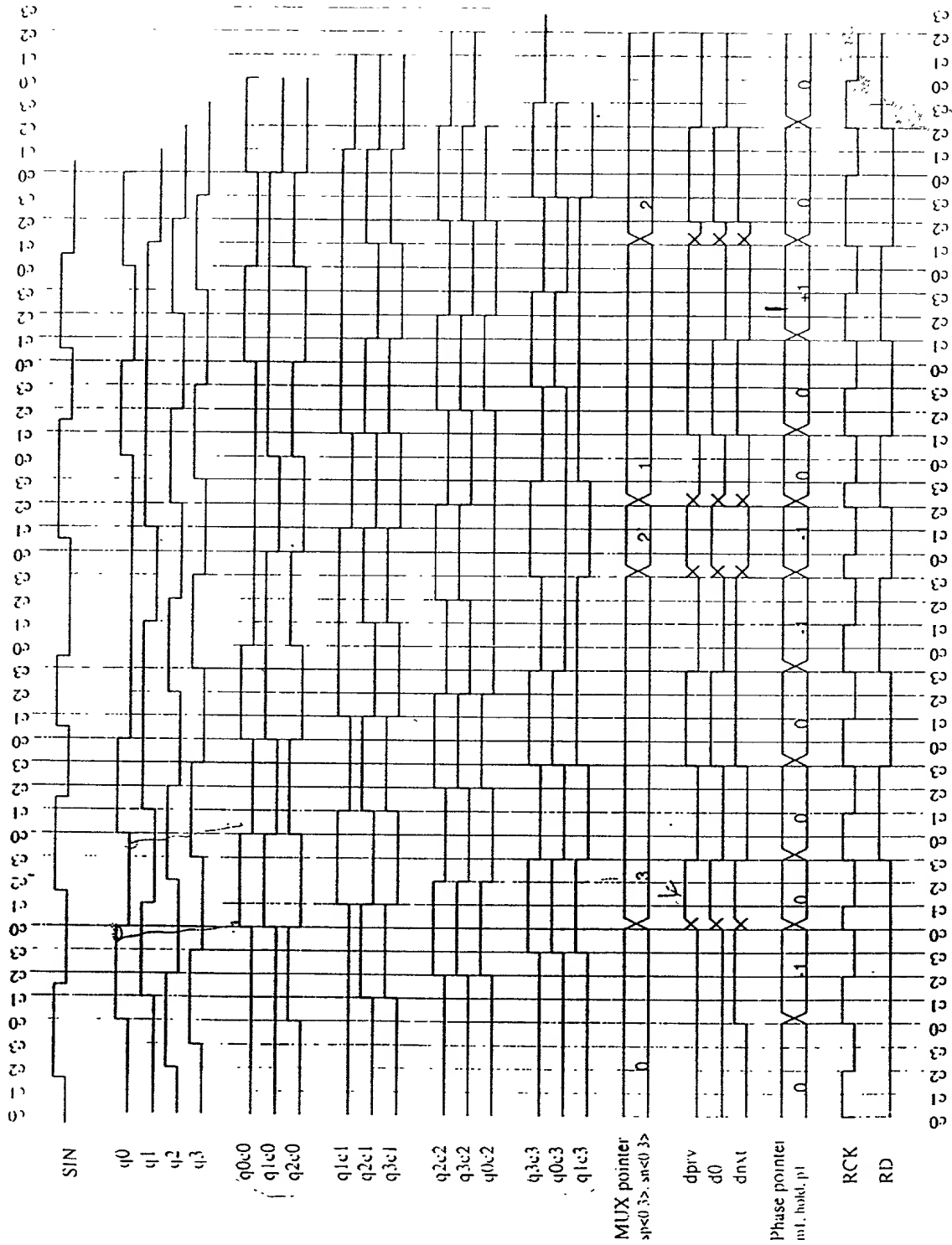


FIG. 5

DPRV	D0	DNXT	M1	HOLD	P1
H	H	L	H	L	L
L	H	H	H	H	L
L	L	L	L	L	L
L	H	L	L	L	H

FIG. 6

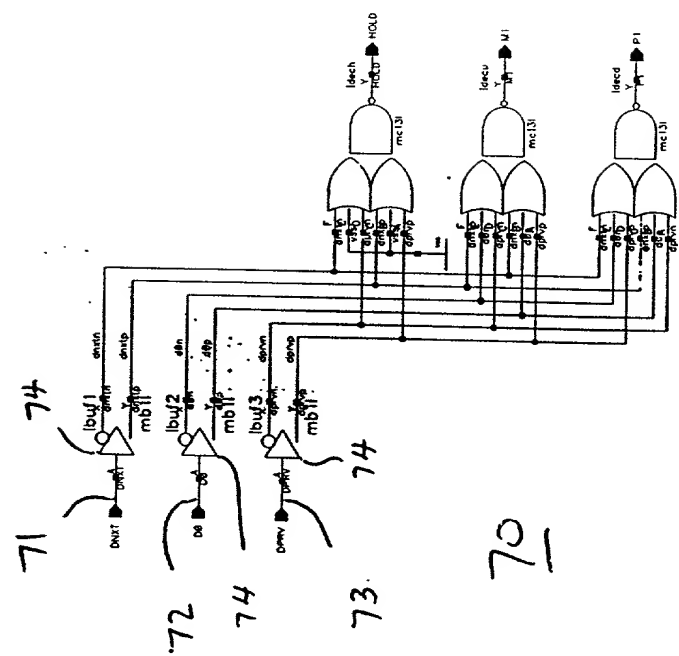


FIG. 7

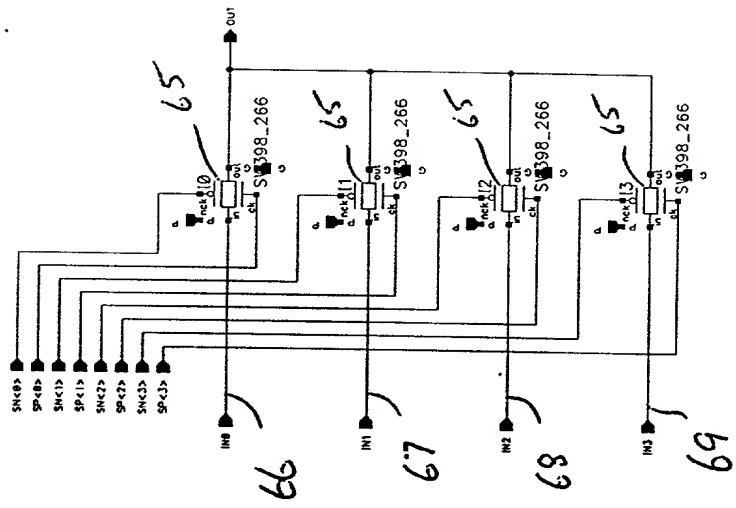
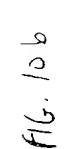
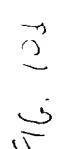


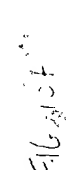




Fig. 10c

46. 100

File 100

**typ\_2.5**

/p\_2.5



2.5

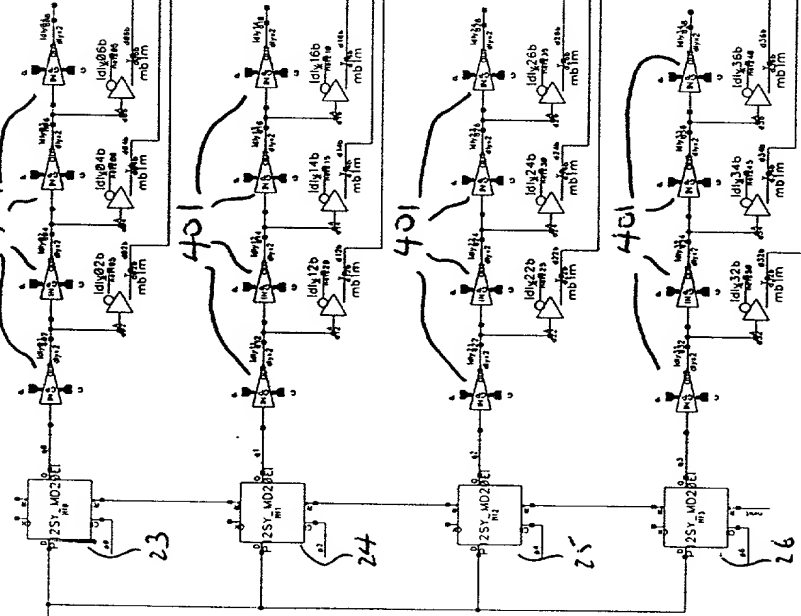




1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571.

| Multi-phase sampling  | Data phase alignment  |
|---|---|
| <p>1. <b>Phase 1:</b> Initial data collection (e.g., baseline survey).</p> <p>2. <b>Phase 2:</b> Follow-up data collection (e.g., longitudinal survey).</p> <p>3. <b>Phase 3:</b> Additional data collection (e.g., experimental data).</p> | <p>1. <b>Phase 1:</b> Initial data collection (e.g., baseline survey).</p> <p>2. <b>Phase 2:</b> Follow-up data collection (e.g., longitudinal survey).</p> <p>3. <b>Phase 3:</b> Additional data collection (e.g., experimental data).</p> |

**Data phase alignment** . . . . .



30

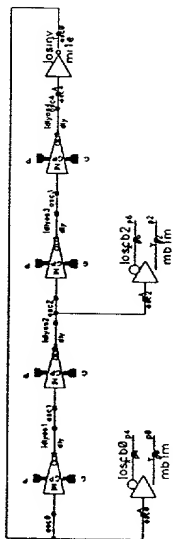


FIG 12a

| Wave           | Symbol |
|----------------|--------|
| D0:A0:v(sp<0>) | ○      |
| D0:A0:v(sp<1>) | △      |
| D0:A0:v(sp<2>) | □      |
| D0:A0:v(sp<3>) | ⊗      |

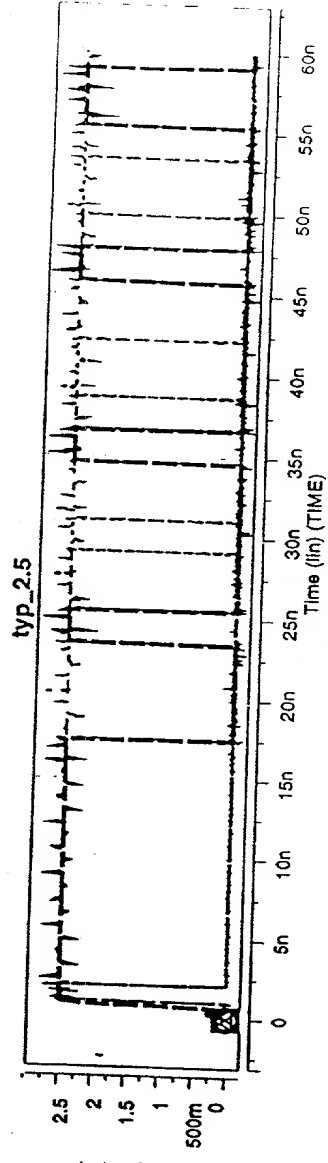


FIG 12a

| Wave          | Symbol |
|---------------|--------|
| D0:A0:v(up)   | △      |
| D0:A0:v(down) | □      |
| D0:A0:w(hold) | ⊗      |

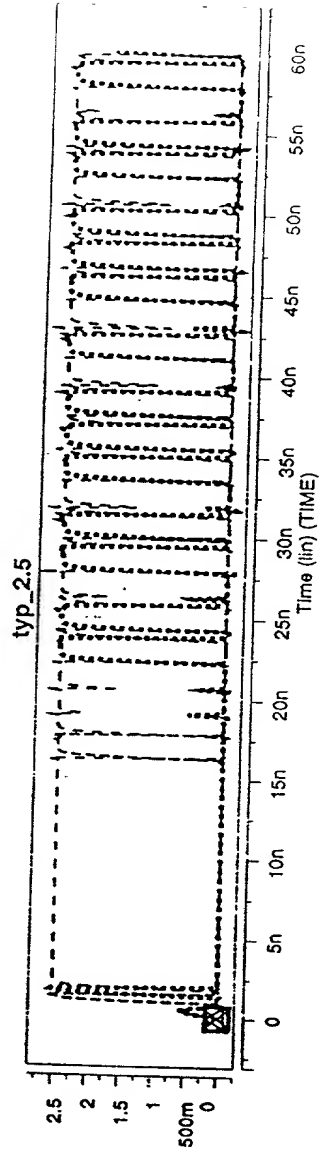


FIG 12b

| Waves        | Symbol |
|--------------|--------|
| D0:A0:v(p0)  | ○      |
| D0:A0:v(p2)  | △      |
| D0:A0:v(p4)  | □      |
| D0:A0:v(p6)  | ⊗      |
| D0:A0:v(sin) | —      |

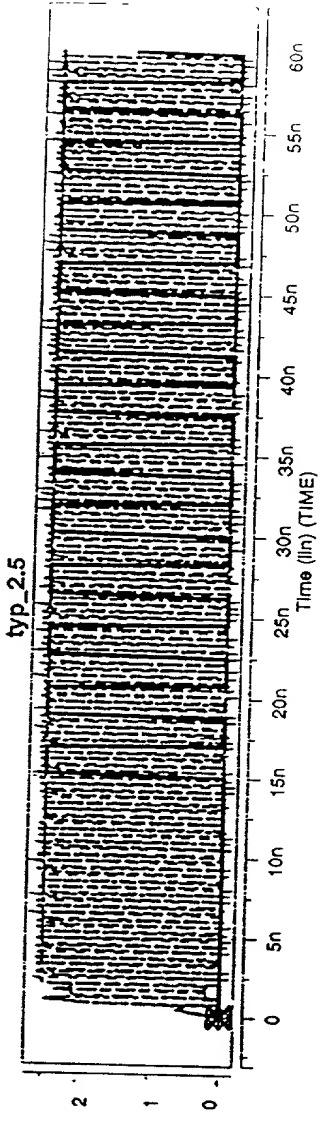


FIG 12c

| Wave        | Symbol |
|-------------|--------|
| D0:A0:v(ck) | ○      |
| D0:A0:v(rd) | △      |

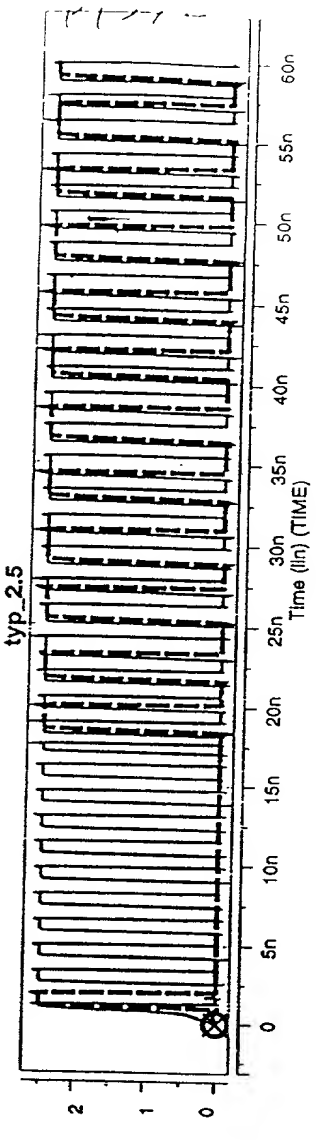


FIG 12d

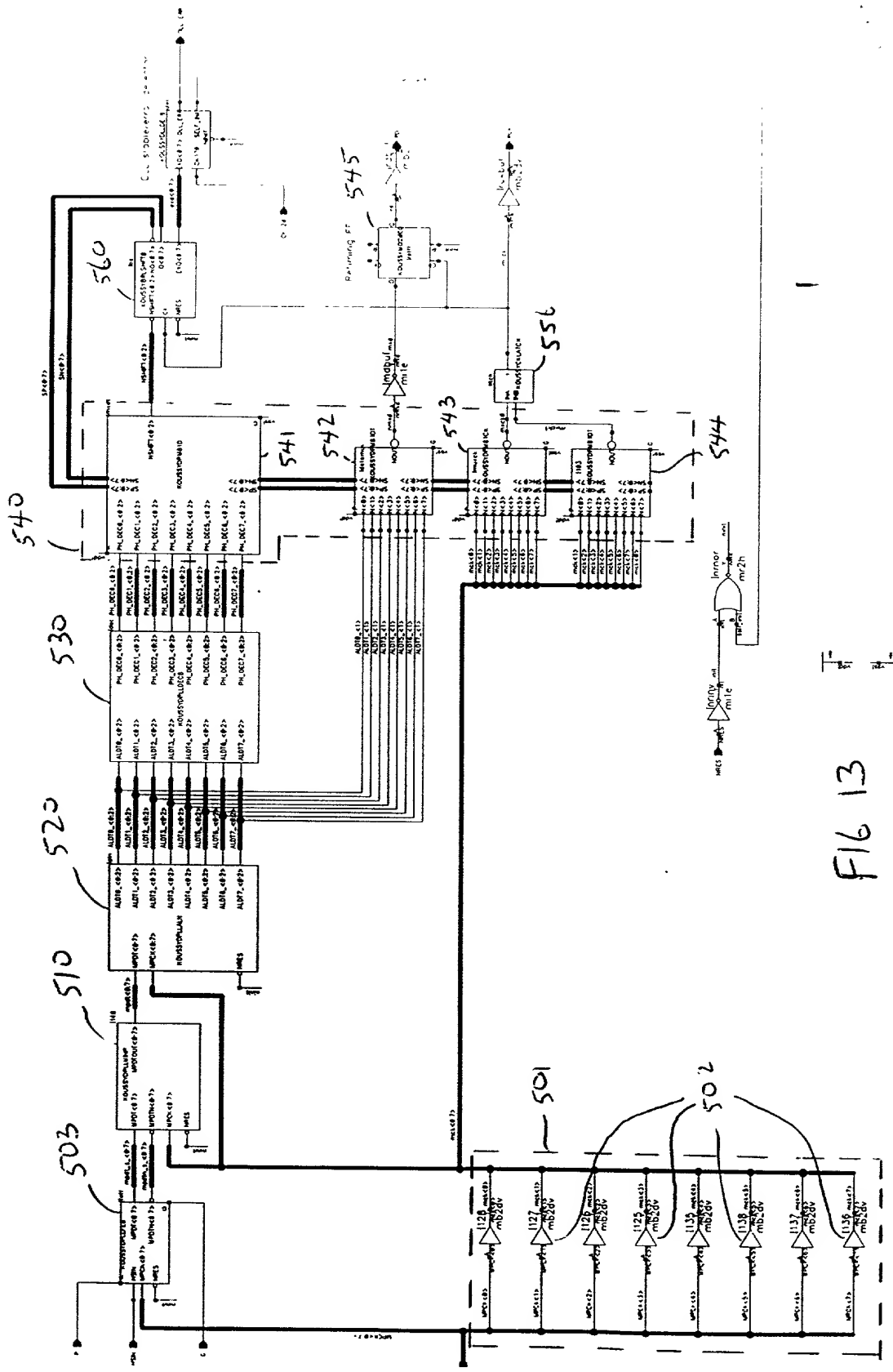
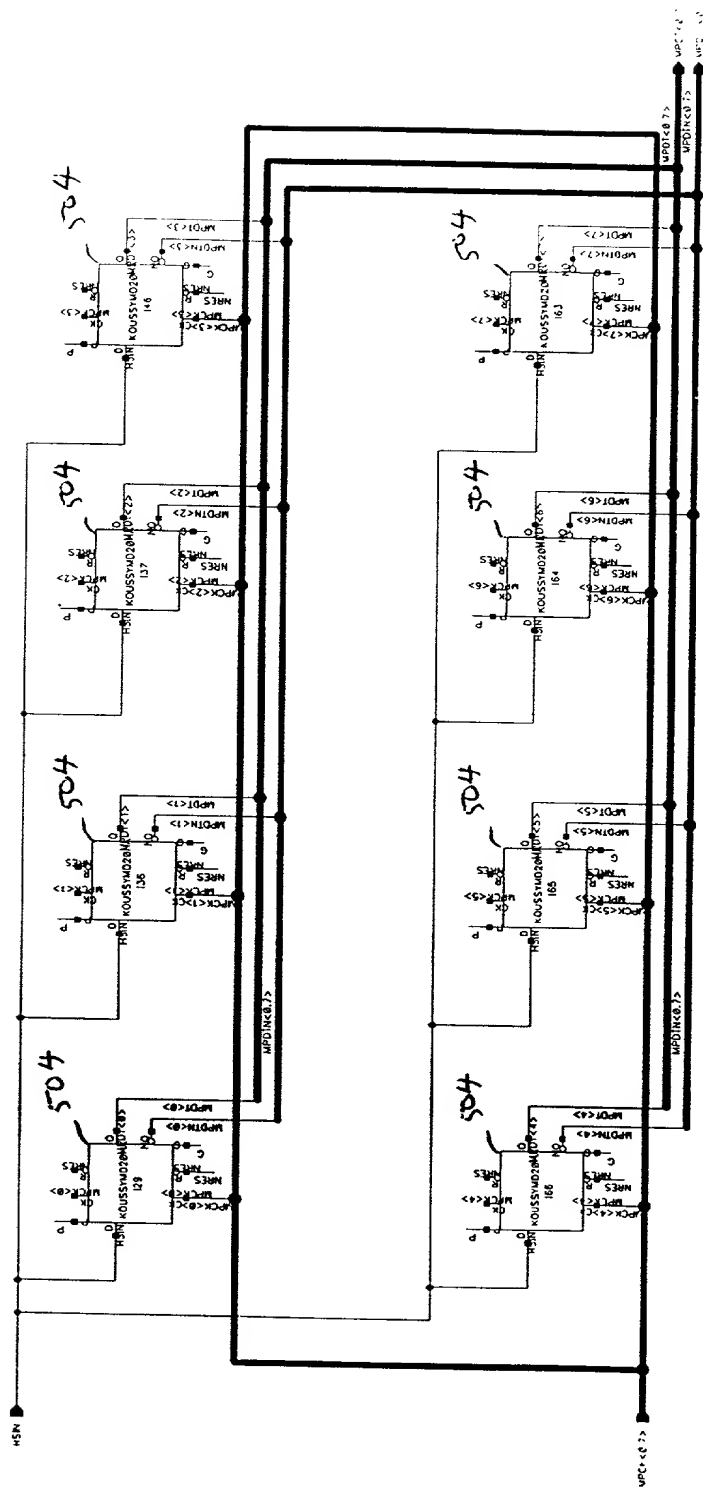


FIG 13

Handwritten notes and markings at the top of the page, including a date "11/11/77" and a signature "J. J. J."

F16.14

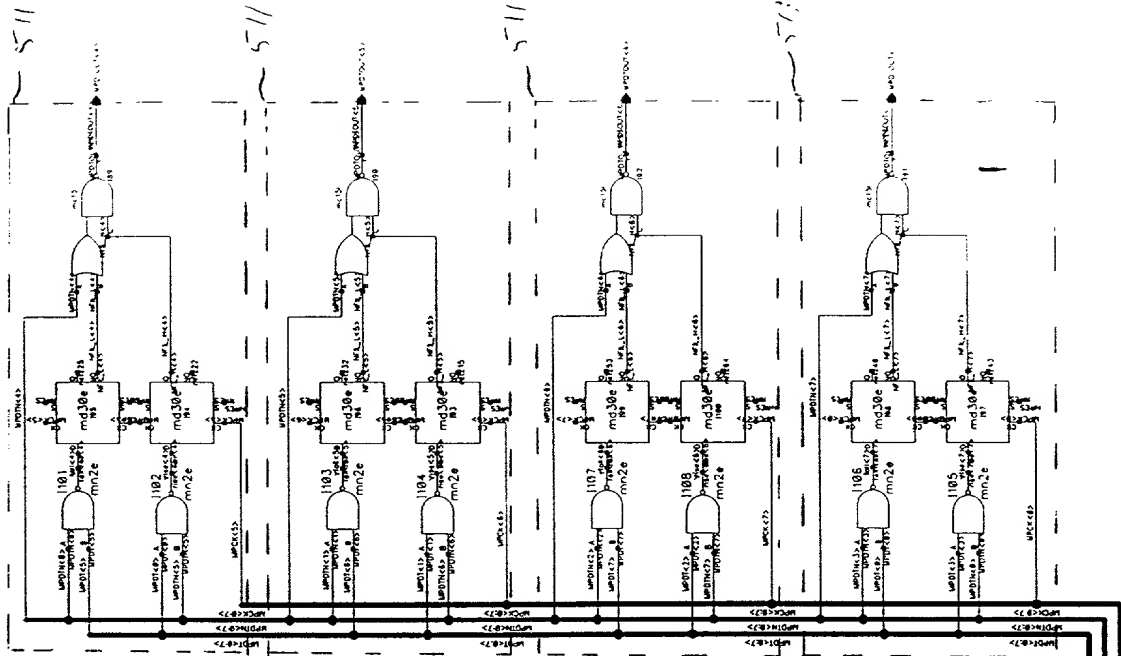
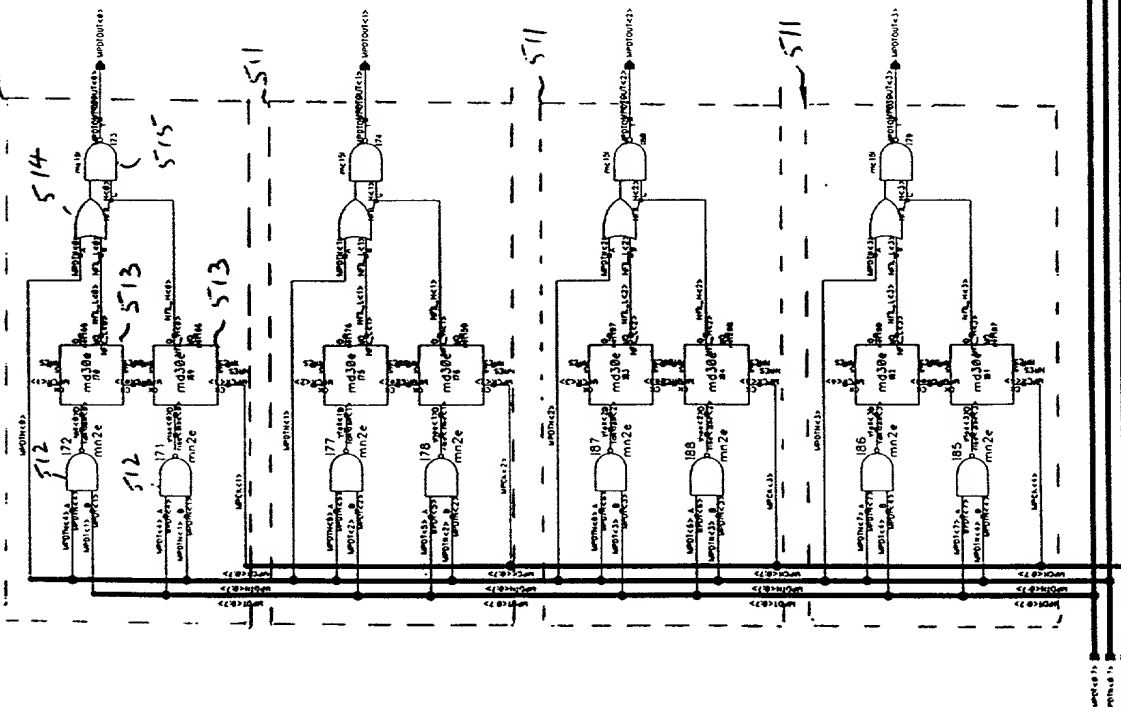


Handwritten notes at the bottom of the page, including a date "11/11/77" and a signature "J. J. J."

FIG. 15

FIG. 15

511



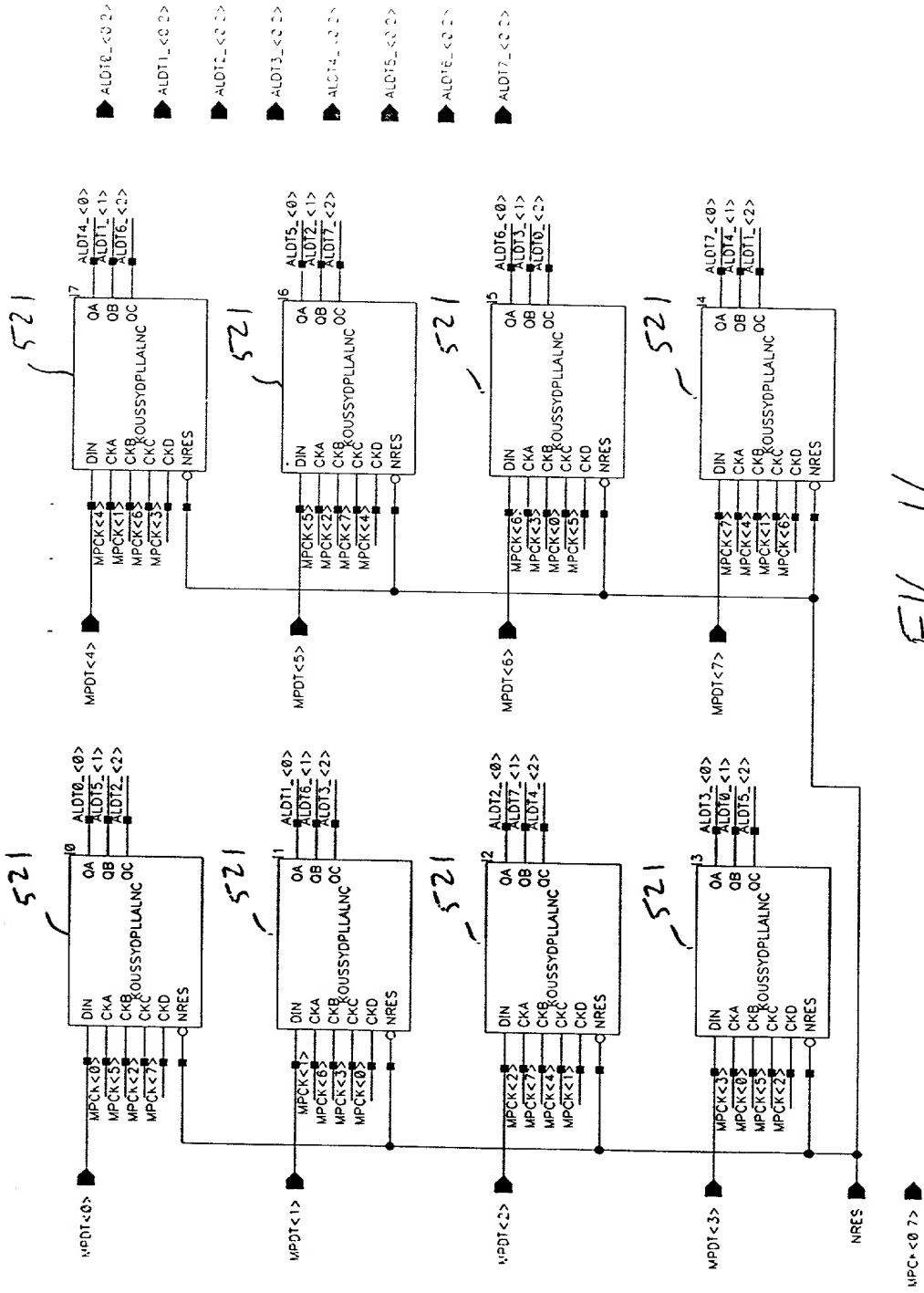
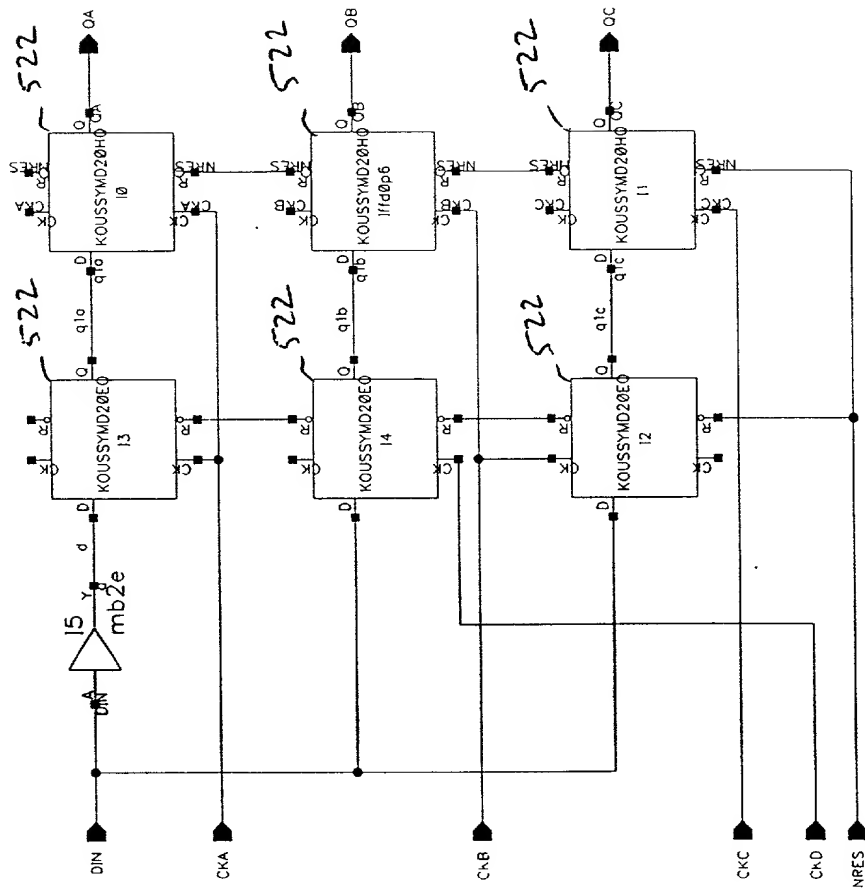
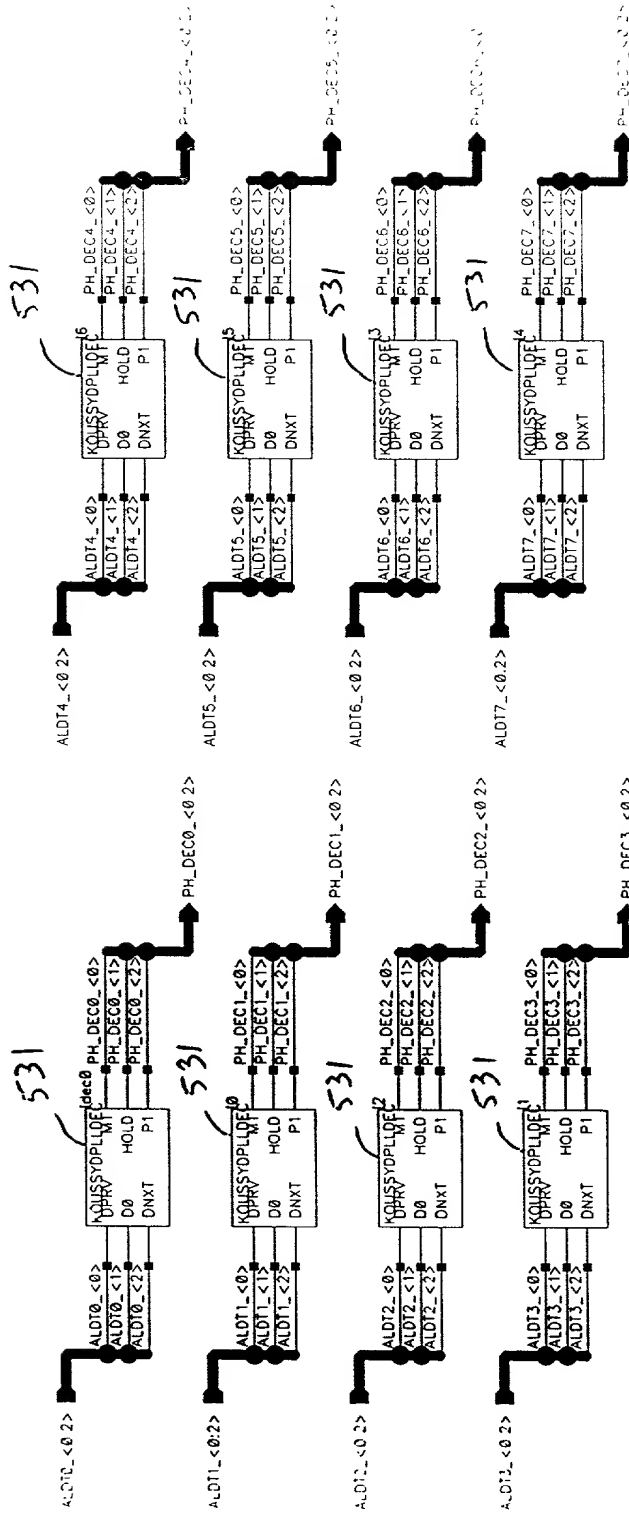


FIG. 16



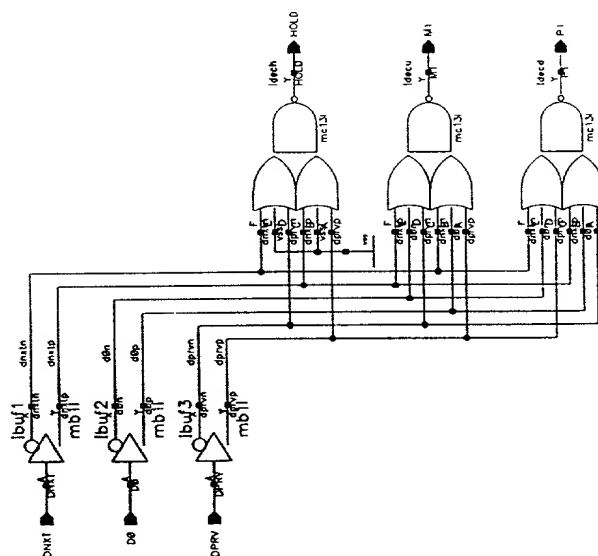
F16.17



F16.18



FL6 20



|           |           |
|-----------|-----------|
| OPRV      | I I I I I |
| DØ        | I I I I I |
| ONY       | J H I J K |
| T         | T H U L L |
| S         |           |
| C)        | J H I X S |
| (         |           |
| I I I I I |           |

FIG. 21

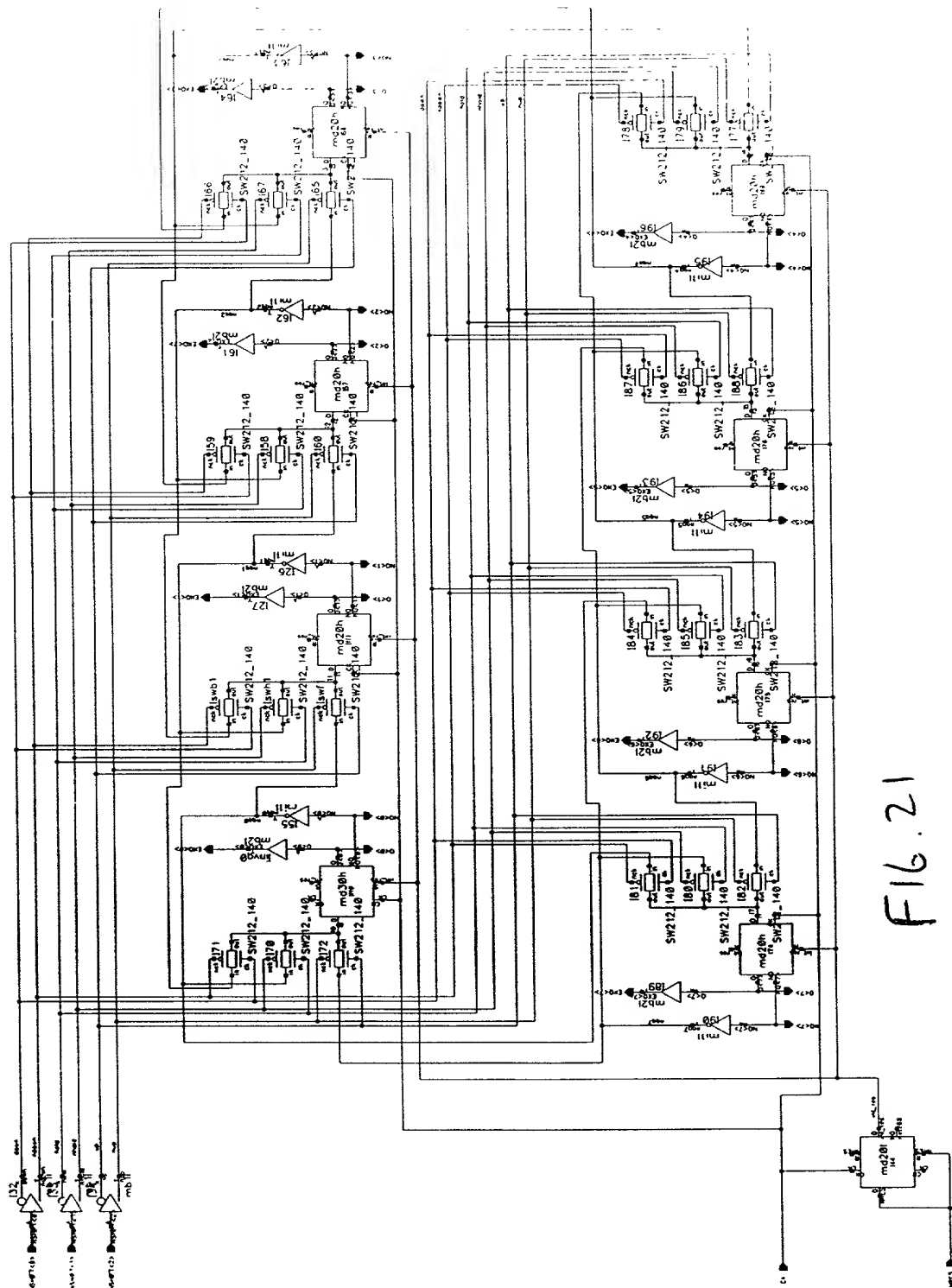
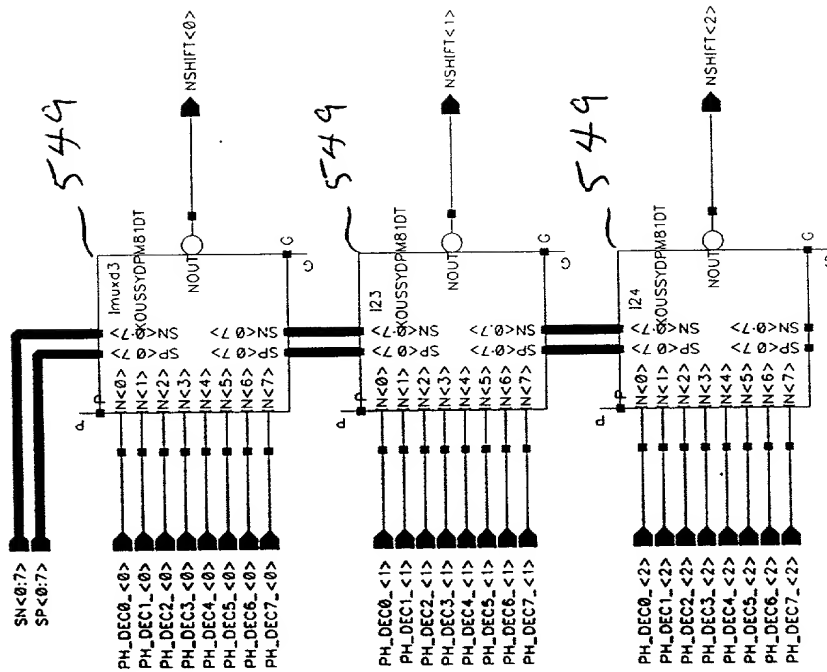
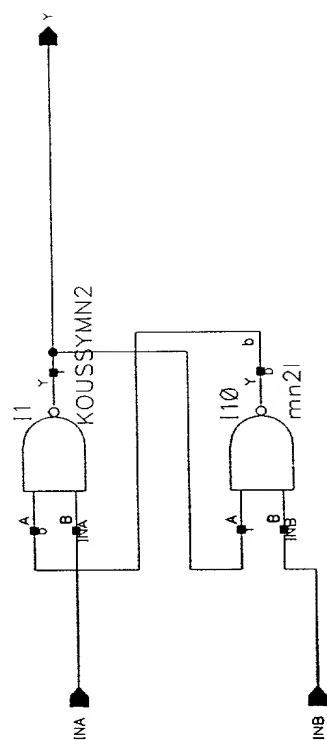


FIG. 21

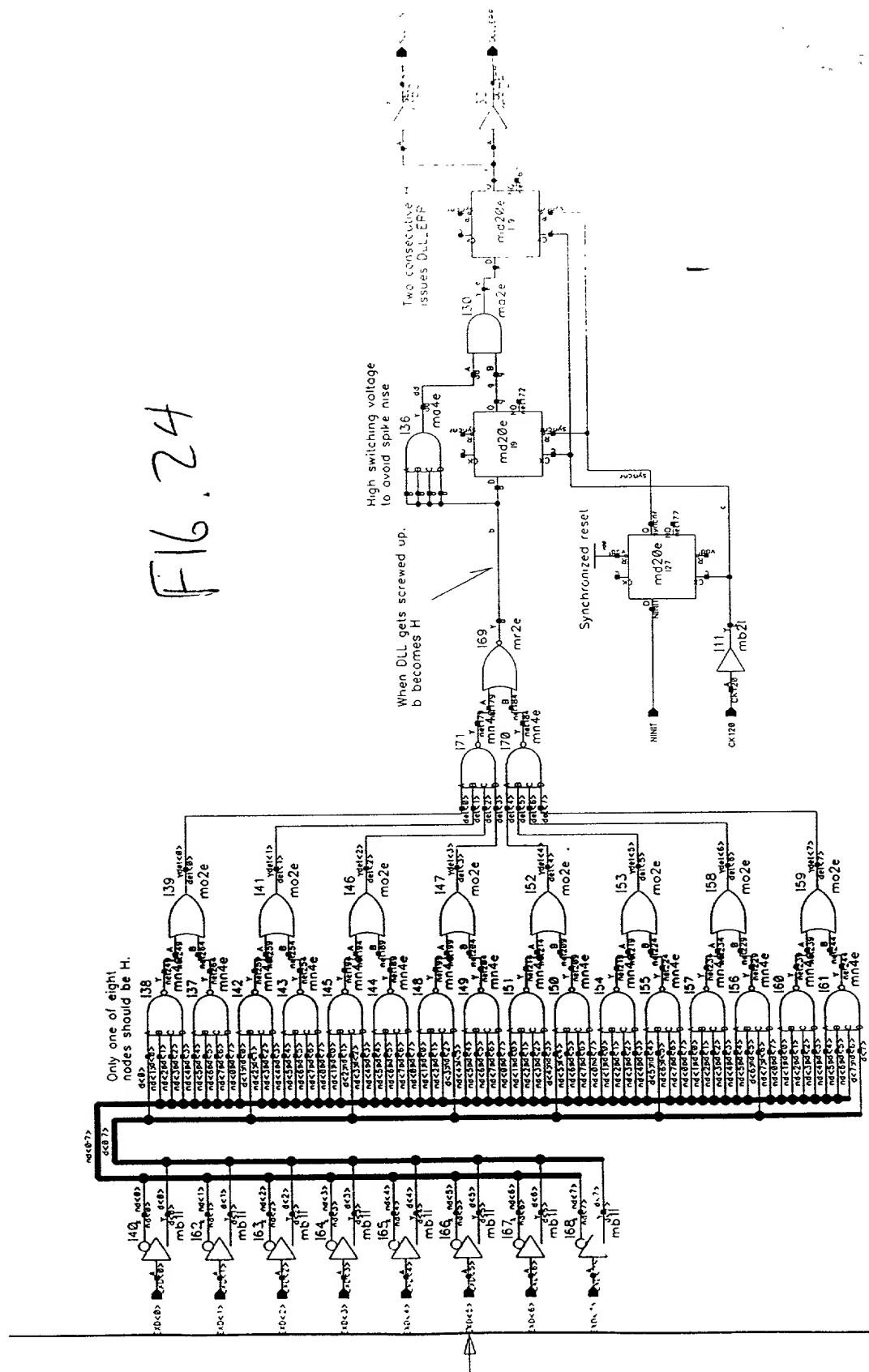


P  
G

Fig. 22



F16.23



F16.24

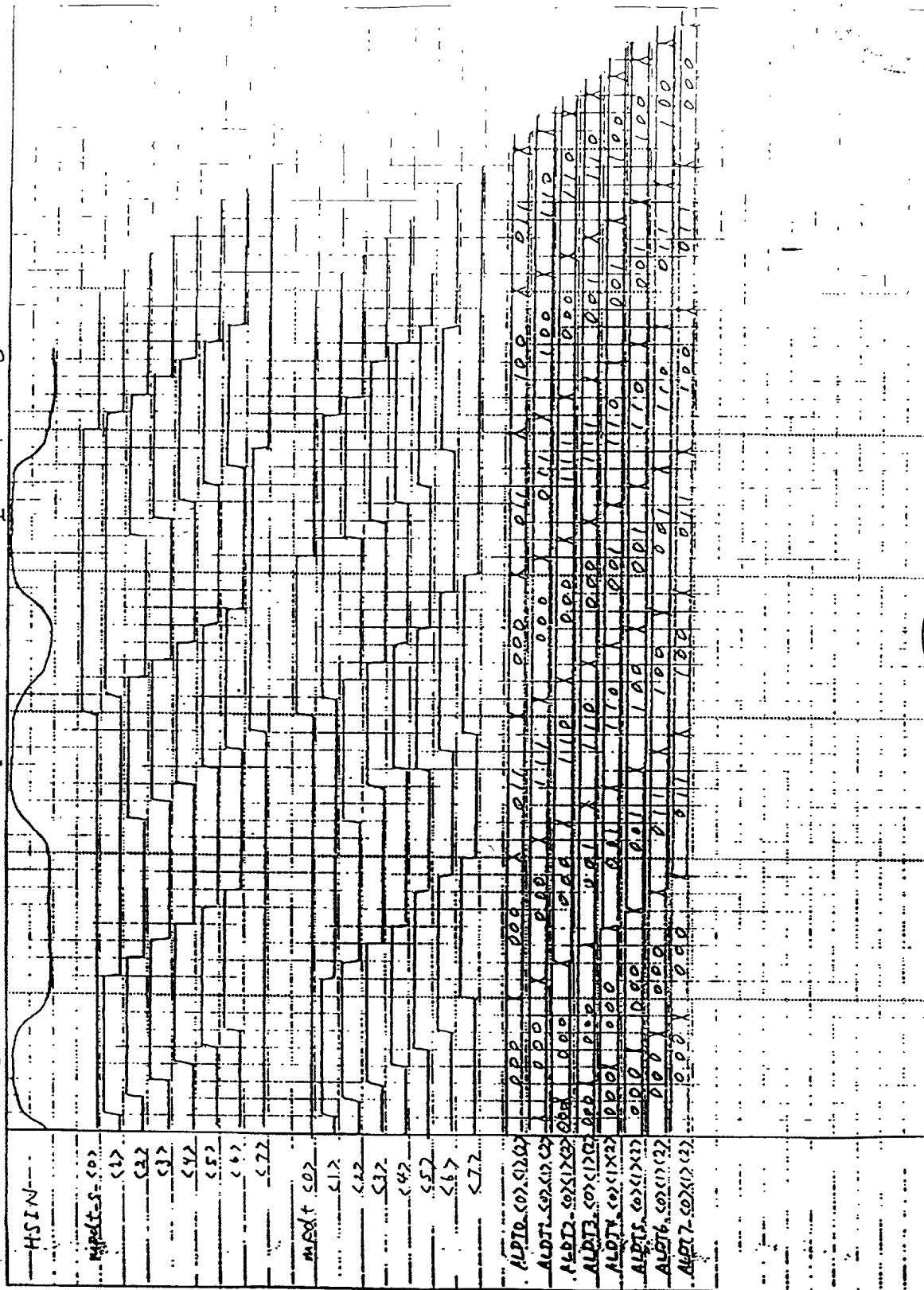
High switching voltage  
to avoid spike rise

When DLL gets screwed up.

Two consecutive  
issues DLEPP

Synchronized reset

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 1 | 0 | 1 | 0 | 1 | 0 |
|---|---|---|---|---|---|

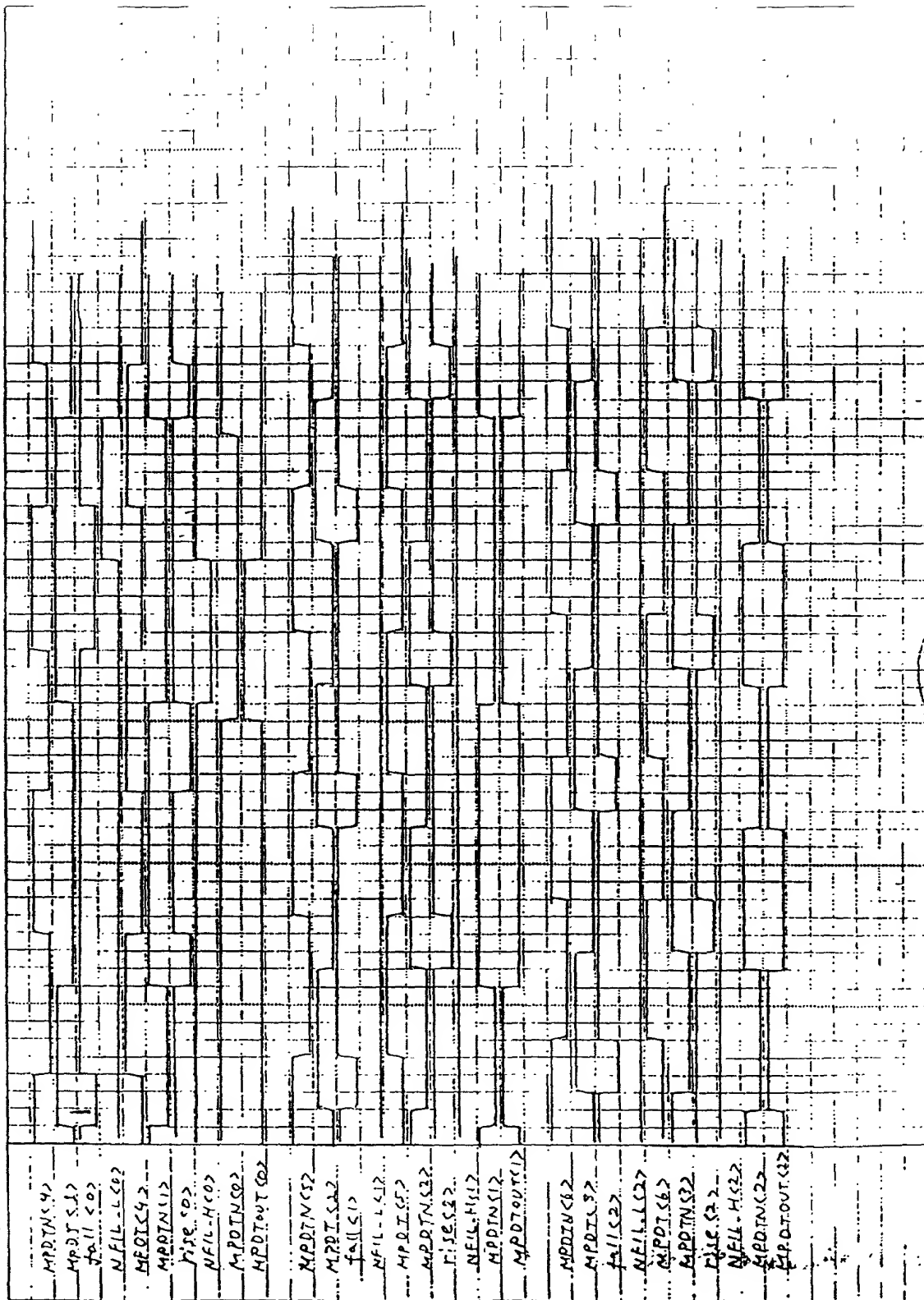


| DATE | DESCRIPTION | AMOUNT | BALANCE |
|------|-------------|--------|---------|
| 1890 | Jan 1       |        | 100.00  |
|      | Feb 1       | 10.00  | 90.00   |
|      | Mar 1       | 20.00  | 70.00   |
|      | Apr 1       | 30.00  | 40.00   |
|      | May 1       | 40.00  | 0.00    |
|      | Jun 1       | 50.00  | 50.00   |
|      | Jul 1       | 60.00  | 110.00  |
|      | Aug 1       | 70.00  | 180.00  |
|      | Sep 1       | 80.00  | 260.00  |
|      | Oct 1       | 90.00  | 350.00  |
|      | Nov 1       | 100.00 | 450.00  |
|      | Dec 1       | 110.00 | 560.00  |
| 1891 | Jan 1       | 120.00 | 680.00  |
|      | Feb 1       | 130.00 | 810.00  |
|      | Mar 1       | 140.00 | 950.00  |
|      | Apr 1       | 150.00 | 1100.00 |
|      | May 1       | 160.00 | 1260.00 |
|      | Jun 1       | 170.00 | 1430.00 |
|      | Jul 1       | 180.00 | 1610.00 |
|      | Aug 1       | 190.00 | 1800.00 |
|      | Sep 1       | 200.00 | 2000.00 |
|      | Oct 1       | 210.00 | 2210.00 |
|      | Nov 1       | 220.00 | 2430.00 |
|      | Dec 1       | 230.00 | 2660.00 |
| 1892 | Jan 1       | 240.00 | 2900.00 |
|      | Feb 1       | 250.00 | 3150.00 |
|      | Mar 1       | 260.00 | 3410.00 |
|      | Apr 1       | 270.00 | 3680.00 |
|      | May 1       | 280.00 | 3960.00 |
|      | Jun 1       | 290.00 | 4250.00 |
|      | Jul 1       | 300.00 | 4550.00 |
|      | Aug 1       | 310.00 | 4860.00 |
|      | Sep 1       | 320.00 | 5180.00 |
|      | Oct 1       | 330.00 | 5510.00 |
|      | Nov 1       | 340.00 | 5850.00 |
|      | Dec 1       | 350.00 | 6200.00 |

[illegible]

F16.25c

KOUSSYDPLCMINP

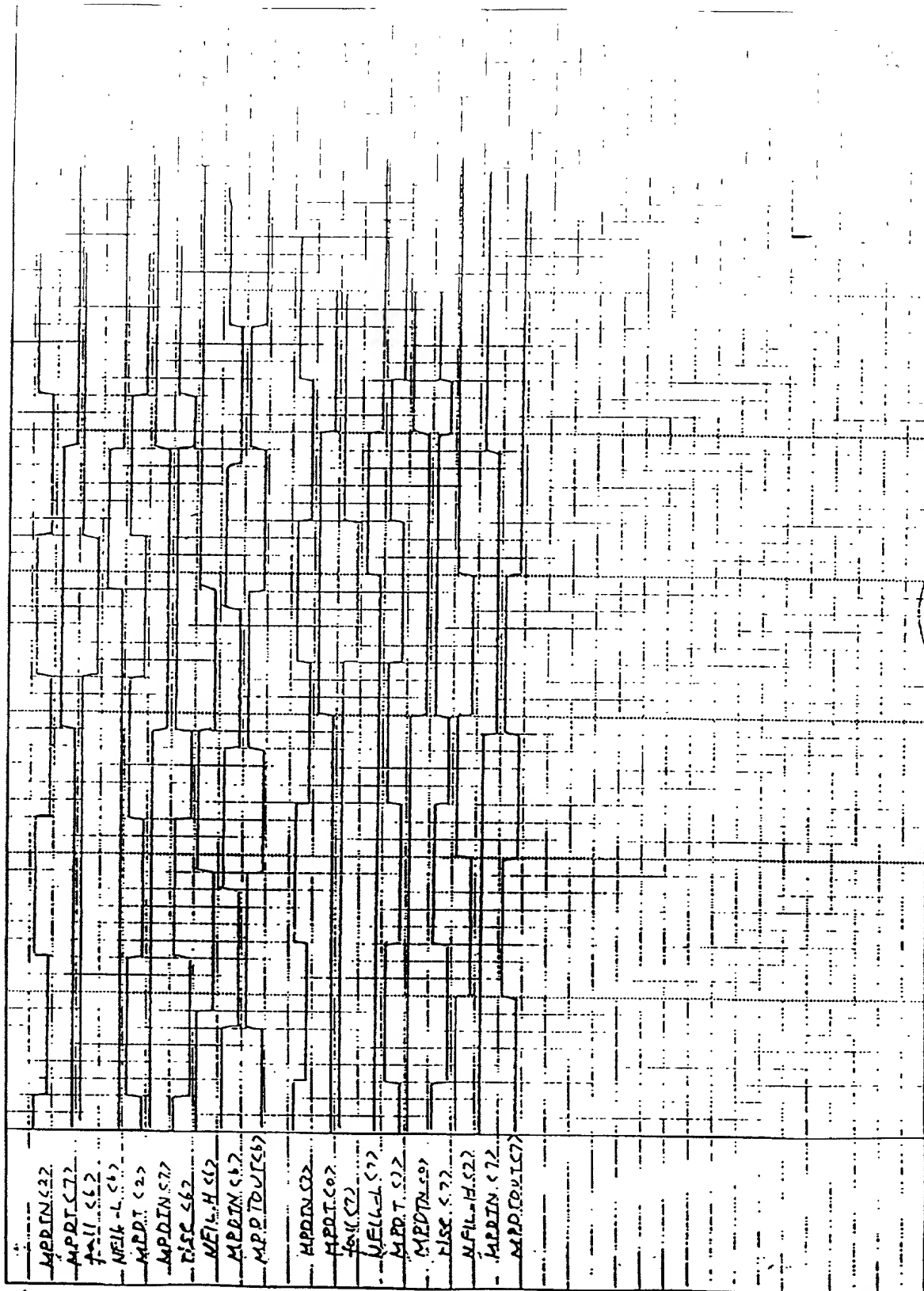




Flk. 25d



Fig. 25c



Fl. 254

KOUSSYDPLLAN

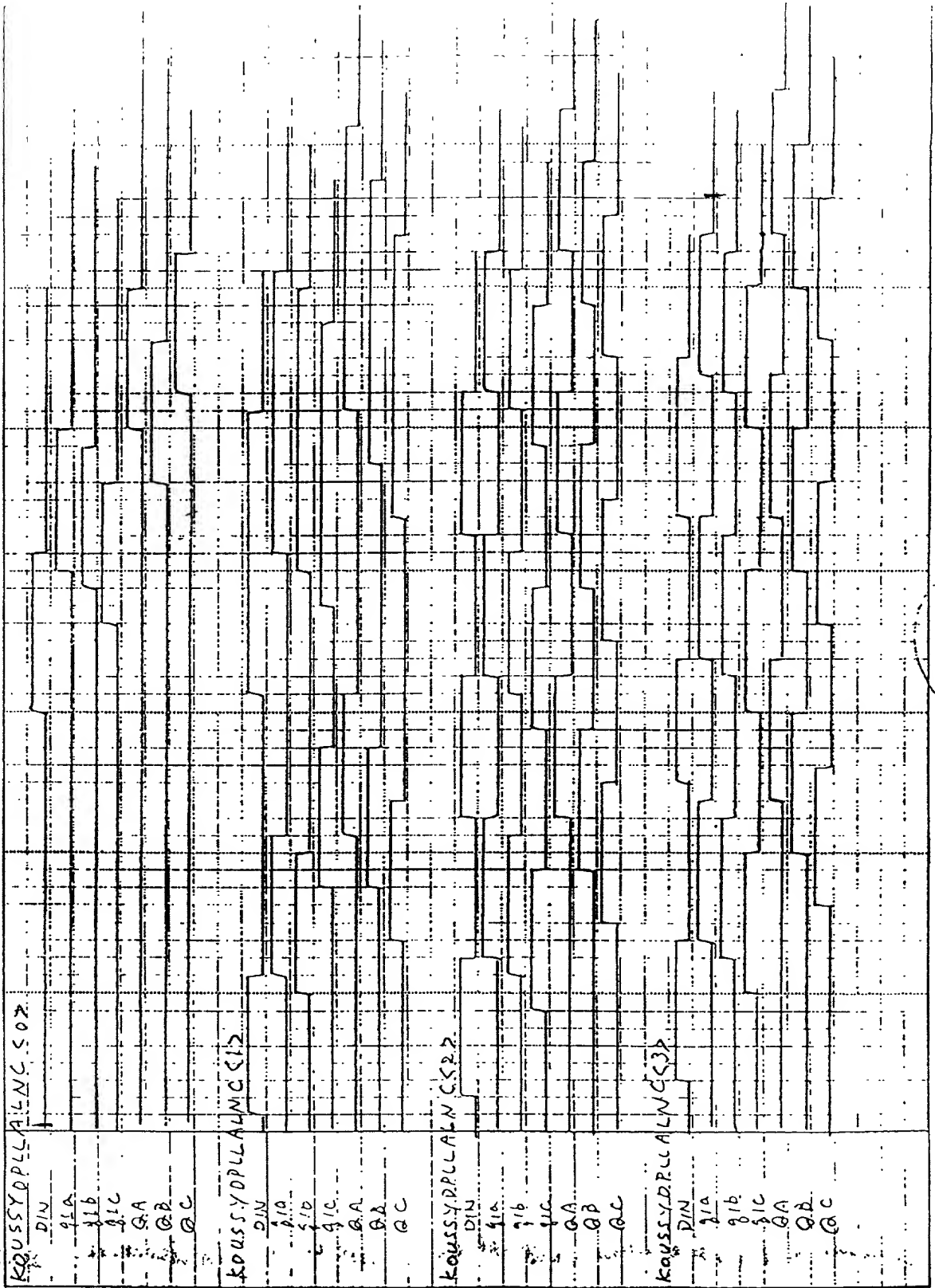
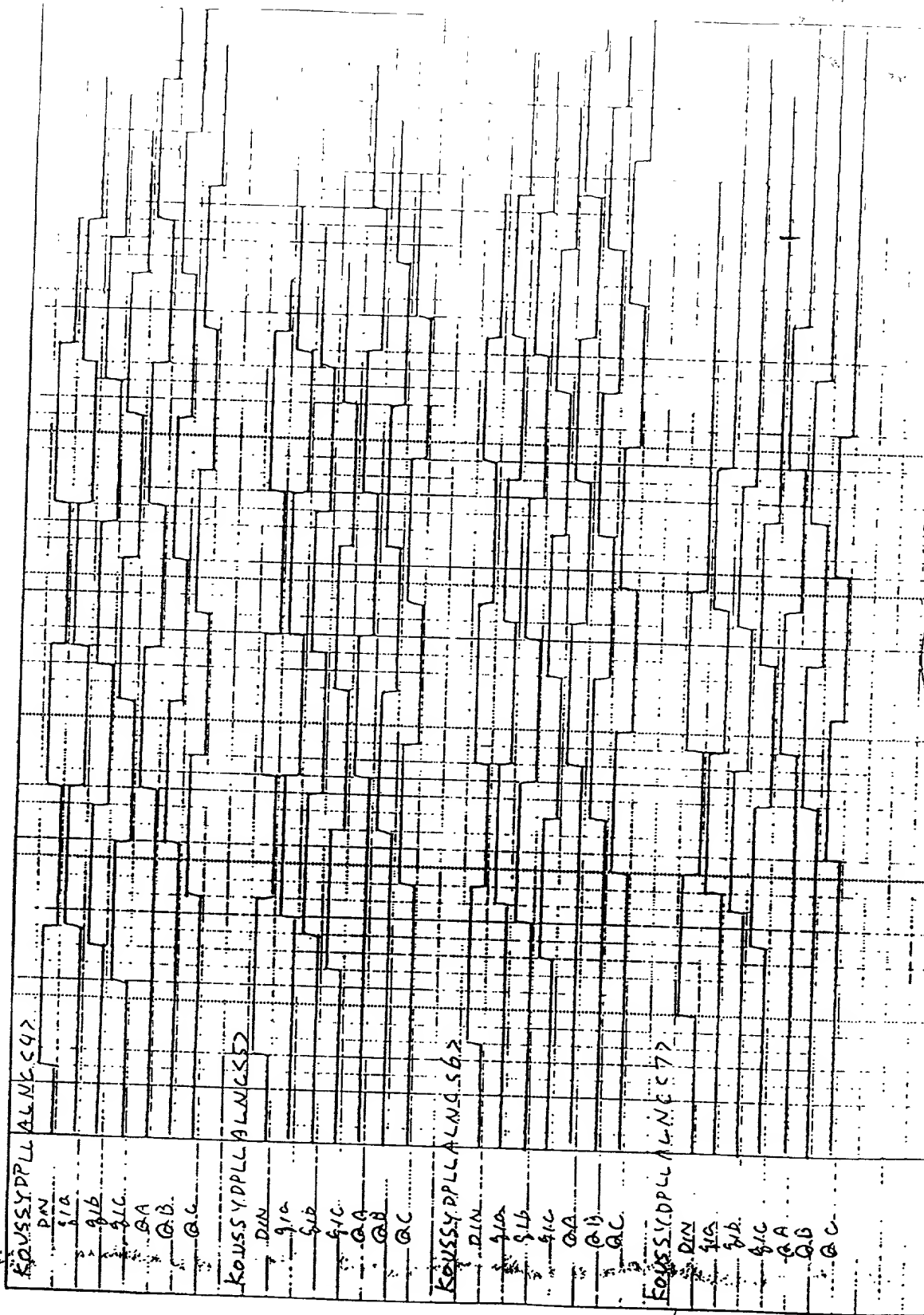


FIG. 25g



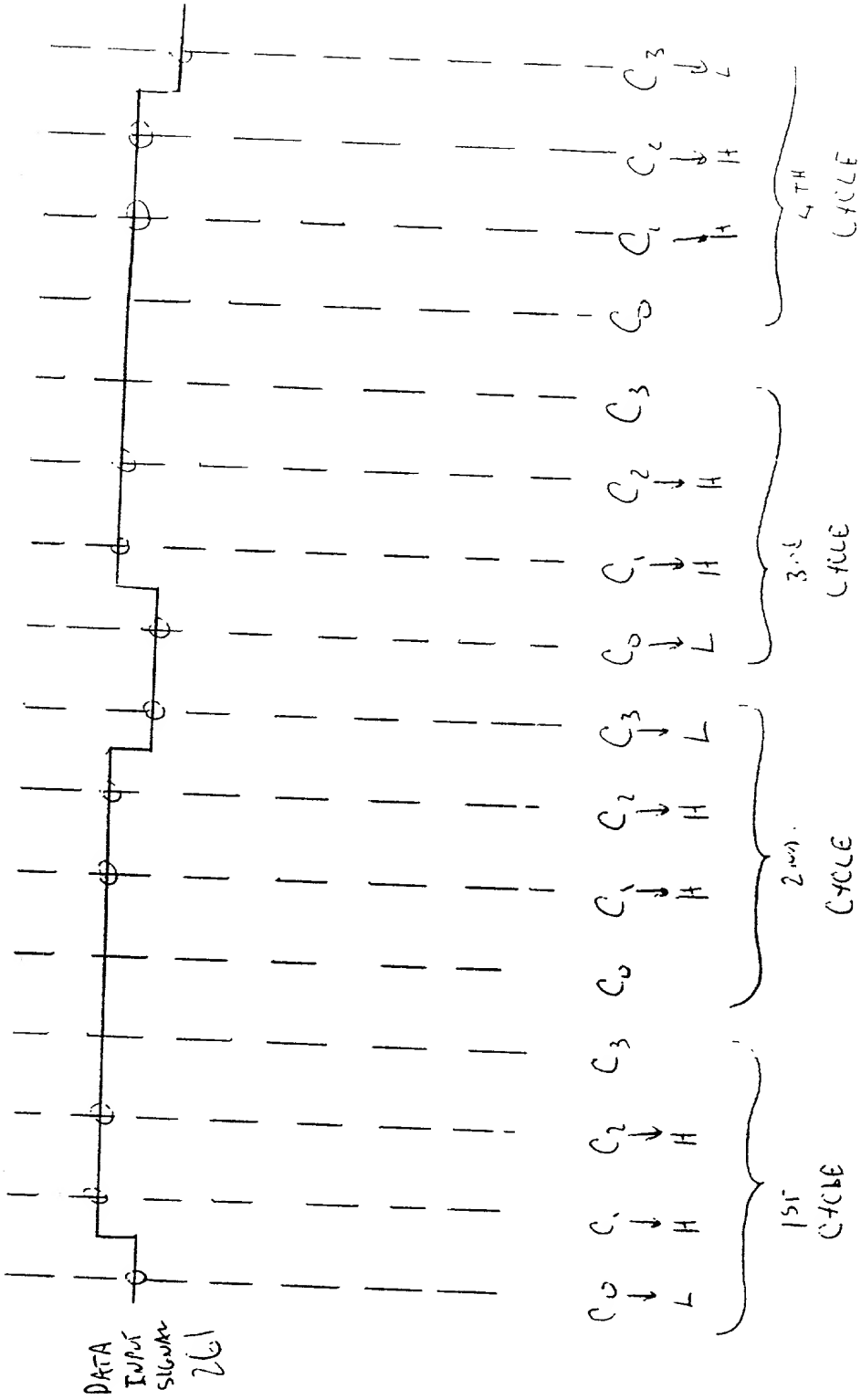


FIG. 26